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A list of craftsmen and their trade vide page 105. A few words may be added here on some particular crafts. They have skilful blacksmiths; these make spears, hoes, axes, harpoons, picks, arm-rings of brass and of iron, bells, chains. Their handicraft, which is carried on chiefly during the dry season, is a travelling one; they take their tools and go about from one place to another. While among the Dinkas the blacksmiths are considered a low, despised class of people, who live separate from the villages in the bush, with the Shilluks they are respected persons, and accordingly their pay is good. The employer has to support the blacksmith working for him, and pays him a sheep beside. Iron is not found in the Shilluk country. Previous to the opening up of the country to the traders the iron secured by the Shilluks came from the Dinkas and Nuers, who seemed to buy it from the natives of the Upper Nile regions (Jurs, Bongos), where iron is smelted; some may also have come from Darfur through Kordofan. In recent years, however, nearly all of it is procured from the north, and is of European origin. A remarkable proof of the growing willingness on the side of the natives to work for wages is the fact that during the last two years the American missionaries have introduced and sold to the natives some thirteen tons of raw iron, together with a great number of good iron tools, as axes, etc. Not only the raw material, but even the finished articles of native manufacture are gradually being replaced by European imports. Their good spears are still made by their own blacksmiths, but many cheap spears are bought from the traders; so are their crude axes, mattocks and hoes. Iron bracelets and other ornaments are made by their blacksmiths from iron rods. If the rod is too large, it is heated and beaten out. Whatever the Shilluk blacksmith makes, is superior to the imported article that he gets from the Arab or Greek trader. It may be mentioned that the word *bōdo*, which means originally and properly "blacksmith", has also the wider sense of "craftsman", and has become a designation for all other crafts they practise.

BLACKSMITHS

An important craft is that of the thatch-maker. The roofs of the Shilluk houses are of a peculiarly neat description. While the Dinkas generally leave the roof with the appearance of being unfinished, the grass not being smoothed down and cut at the ends, the Shilluk thatcher makes his thatch with a neatness which really excites admiration. The framework of the roof is always made on the ground and placed on the circular wall like a great conical cap.

OTHER CRAFTS

Plaiting is practised by both sexes. Men make the large, coarse mats for enclosing yards, and also the large grain baskets. Women plait small fancy mats for covering food, and also very nice small coloured baskets, sieves, etc.

Most of the men make their own ostrich shell girdles. The shells are first broken into irregular pieces, which are pierced in the center with an awl-

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shaped iron instrument. The hole is made by holding the sharpened point of the iron on the piece of shell and rapidly revolving it between the palms of the hand. The pierced pieces are then rounded by crushing the edges against a stone with a cow's hoof.

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Skins for wearing apparel, such as the hides of calves, goats, gazelles and other small animals are usually prepared by drying them first and dressing, then curing in ashes. After this they are stretched tight on poles stuck in the ground, and grease or oil is rubbed on them; then they are rubbed and worked for several hours, till they are soft, and the oil well worked into them. The hair is left on; a skin with a large amount of the hair gone would be considered very poor. The skin is worn with the hair on the outside.

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Ropes are made from plant fibres, grass, and the leaves of the dom palm.

BOATS

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Canoes are hollowed out of trees; this is, considering the poor tools they have, a very tiresome work, but the boats they make are fairly well; they are propelled by means of long sticks. A peculiar kind of boat or raft is made of the ambach tree; it is composed of a thick bundle of that pith-like, light cane tied together, turned up at the bows, and propelled by a paddle. These boats are so light that they are easily carried by one man.

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MUSICAL INSTRUMENTS

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Their musical instruments are small and large drums, a stringed instrument called *tom* and a wind instrument consisting in a cow's or antelope's horn; this is used in wars and in war-dances. The drums are logs of wood hollowed out and braced with skin; they are beaten either with the flat hand or with a stick. The *tom* is made by splitting in the middle a small section of a log and hollowing out the flat side a little. A piece of raw cow hide is stretched wet over this, and the flat side becomes the face of the instrument. A round stick some 18 inches long is fastened at each end. The ends of these two upright pieces pass through a cross-stick, which is large enough in diameter to allow them to pass this and still be quite strong. The holes are made in it by burning. The strings are made of tendons of animals or of the root bark of a certain plant. These are attached to the head, drawn across the face over a small wooden bridge, and wound about the cross-stick. They are then tightened, and the instrument is tuned by wettening these strings and tightening or loosening them about the crosspiece. They are tied to this stick, and by winding over themselves, keep from slipping.

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POTTERY

Pottery is the handicraft of women. They make pots of different kind and size, for carrying water, cooking, brewing beer; they also make pitchers, cups for drinking beer, heads for smoking pipes, etc. Gourds and calabashes are also much used household tools. The pipe-heads are made of clay; they are large and rather clumsy, and are generally ornamented with some simple designs,